

Mobile Application Development  
Assignment 5 (100 Points)

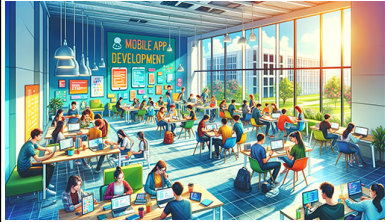
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**Basic Instructions:**

1. In every file submitted you MUST place the following comments:
  - a. Assignment #.
  - b. File Name.
  - c. Full name of the student.
2. Each group is required to submit the assignment on Canvas.
3. **Submit Codes:**
  - a. Zip all the project folder to be submitted on canvas.
4. Submission details:
  - a. The file name is very important and should follow the following format:  
**Assignment#.zip**
  - b. You should submit the assignment through Canvas: Submit the zip file.
5. **Failure to follow the above instructions will result in point deductions.**

In this assignment you will be building an application that uses a single activities and multiple fragments. Structure and important setup are listed below:

**- In this app you will have only one Activity and multiple fragments, all communication between fragments should be managed by the Main Activity.**

Welcome !!	Create User Info	Profile
	Name : <input type="text" value="Enter Name"/>	Name: Bob Smith
	Email : <input type="text" value="Enter Email"/>	Email: b@b.com
	Role : <input checked="" type="radio"/> Student <input type="radio"/> Employee <input type="radio"/> Other	Role: Employee
<input type="button" value="Start"/>	<input type="button" value="Next"/>	<input type="button" value="Update"/>

(a) Welcome Fragment

(b) Create User Fragment

(c) Profile Fragment

**Figure 1, App Wireframe**

### **Part 1, Welcome Fragment (10 Points):**

The main activity should load the Welcome fragment when the application loads as shown in Figure 1(a). Please follow the steps to build this activity:

1. The fragment displays the banner photo as shown in Figure 1(a).
2. Clicking the “Start” button should use communicate with the Main Activity
  - a. Replace this fragment with the “Create User” fragment. Should use the interface to implement this feature.

### **Part 2, Create User Fragment (30 Points):**

This fragment is shown in Figure 1(b). The requirements are listed below:

1. The fragment requests the user’s name, email, and role. Create a User class to hold these attributes, the class should implement Serializable or Parcelable interface.
2. Clicking the “Next” button should:
  - a. If any of the inputs are missing, then show a Toast message indicating that the corresponding input is required.
  - b. If all the inputs are correctly provided, create a User object initialized with the provided input. Communicate with the hosting activity to replace this fragment with the Profile fragment, send it the User object and push the current fragment on the back stack.

### Part 3, Profile Fragment (30 Points):

1. When this fragment is created it should receive the User object from the Create User fragment and it should display the received User object as shown in Fig1(c).
2. Clicking the “Update” button should communicate with the Main Activity to:
  - a. Replace the current fragment with the Edit User fragment, send it the current user, and add the current fragment to the back stack.
  - b. Upon returning from the Edit User fragment, the received User object should be displayed as shown in Figure 2(c).

The figure displays three app wireframes labeled (a), (b), and (c).  
(a) Edit User Fragment: A form titled 'Edit User Info' with input fields for 'Name' (containing 'Bob Smith') and 'Email' (containing 'b@b.com'). Below these are three radio buttons for 'Role': 'Student', 'Employee' (selected), and 'Other'. At the bottom are 'Cancel' and 'Submit' buttons.  
(b) Edit User Fragment: A form titled 'Edit User Info' with input fields for 'Name' (containing 'Alice Green') and 'Email' (containing 'a@a.com'). Below these are three radio buttons for 'Role': 'Student' (selected), 'Employee', and 'Other'. At the bottom are 'Cancel' and 'Submit' buttons.  
(c) Profile Fragment: A form titled 'Profile' displaying 'Name: Alice Green', 'Email: a@a.com', and 'Role: Student'. At the bottom is an 'Update' button.

(a) Edit User Fragment

(b) Edit User Fragment

(c) Profile Fragment

**Figure 2, App Wireframe**

### Part 4, Edit User Fragment (30 Points):

1. When this fragment is created it should receive the User object from the Profile fragment and the received User object should be used to initialize the EditTexts and RadioButtons based on the received User object values as shown in Figure 2(a).
2. Clicking the “Submit” button should:
  - a. If any of the inputs are missing, then show a Toast message indicating that the corresponding input is required.
  - b. If all the inputs are correctly provided, create a User object initialized with the provided input. Send the new User object to the Main Activity which should:
    - a. Find the Profile fragment by tag, send it the received user object.
    - b. Pop the back stack which should display the Profile fragment displaying the newly updated User object.
3. Clicking “Cancel” should simply communicate with the Main Activity to pop the back stack, which displays the Profile fragment.